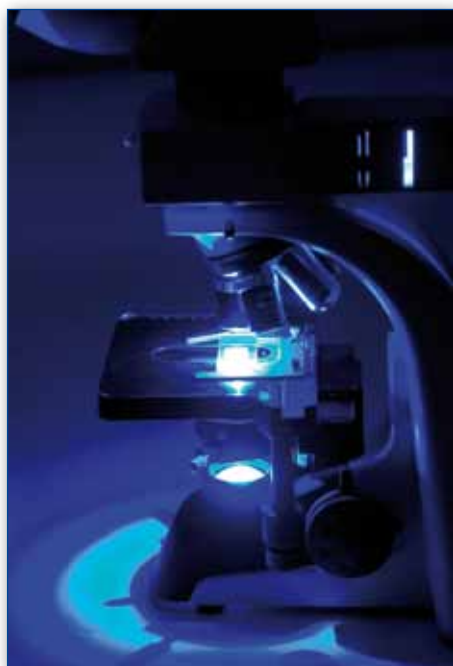


FLUO Series - LED Fluorescence

A complete range of microscopes, designed to meet your needs in fluorescence microscopy.

Quality, innovative technology, power, safety and simplicity of use are the common characteristics of these instruments.



Imagine a fluorescence microscope that needs a lamp change every **50.000 hours**.

Imagine a fluorescence microscope with a cold light source that barely heats up during use.

Imagine a fluorescence microscope that can be switched on, used immediately, switched off and then back on again.

Imagine a fluorescence microscope that is so safe as to need no protection shield whatsoever, and that can be used by everyone, without any specific precaution.

Imagine a fluorescence microscope that can be powered by batteries, as easily as a torchlight.

Imagine a fluorescence microscope that is so sturdy and so compact that it can be used on the field, without any transport problems.

You may think that such an instrument exists in your imagination only.

Actually, such microscope is real, and its name is **OPTIKA B-353LD**.

Developed by the OPTIKA Research labs, the **B-353LD** marks a revolution in the field of fluorescence microscopy.

Strictly derived from the **B-353FL** model, of which it shares the body, the optics and the filter sets, the **B-353LD** employs high-power LED instead of the classical mercury vapour bulb.

The LED is tailored to the specific applications (FITC-TRITC).

The brightfield illuminator uses our *X-LED™* system, and the colour temperature closely matches sunlight. The microscope is available in two versions: **B-353LD1** and **B-353LD2**

B-353LD1 - Technical specifications

Part	Description
Optical system	Mechanical tube length: IOS - Infinity Optical System; parfocal distance 45 mm.
Head	Trinocular, 30° inclined, 360° rotating. Diopter adjustment; interpupillary distance adjustment 55-75 mm.
Eyepieces	Wide Field WF10x/20 mm.
Nosepiece	5-position reversed revolving nosepiece. Ball bearing linear guides.
Objectives	IOS Planachromatic 4x/0.1, 10x/0.25, 20x/0.40, 40x/0.65 and 50x/0.75 (no cover slide).
Specimen stage	Double layer with mechanical sliding stage, 160x142 mm; moving range 76x52 mm.
Focusing system	Rack and pinion mechanism, with coaxial coarse and fine control knobs. Fine adjustment graduation 0.002 mm. Vertical movement range: 20 mm. Tension control on left side; upper stage drive stop on right side.
Condenser	Centrable Abbe condenser with double lens. N.A. 1.25. Fitted with iris diaphragm and filter holder. Height adjustment by a rack and pinion mechanism.
Illumination	<i>X-LED™</i> unit for transmitted light. High power blue LED unit for epi-fluorescence (for standard use with B).

Standard filterset

Name	Excitation wavelength (nm)	Dichroic mirror cut-off (nm)	Barrier filter cut-off (nm)
B (Blue)	450 – 480	500	515

FLUO Series - LED Fluorescence

B-353LD2 - Technical specifications

Part	Description
Optical system	Mechanical tube length: IOS - Infinity Optical System; parfocal distance 45 mm.
Head	Trinocular, 30° inclined, 360° rotating. Diopter adjustment; interpupillary distance adjustment 55-75 mm.
Eyepieces	Wide Field WF10x/20 mm.
Nosepiece	5-position reversed revolving nosepiece. Ball bearing linear guides.
Objectives	IOS Planachromatic 4x/0.1, 10x/0.25, 20x/0.40, 40x/0.65 and 50x/0.75 (no cover slide).
Specimen stage	Double layer with mechanical sliding stage, 160x142 mm; moving range 76x52 mm.
Focusing system	Rack and pinion mechanism, with coaxial coarse and fine control knobs. Fine adjustment graduation 0.002 mm. Vertical movement range: 20 mm. Tension control on left side; upper stage drive stop on right side.
Condenser	Centrable Abbe condenser with double lens. N.A. 1.25. Fitted with iris diaphragm and filter holder. Height adjustment by a rack and pinion mechanism.
Illumination	X-LED™ unit for transmitted light. High power LED unit for epi-fluorescence (for standard use with B and G).

Standard filtersets

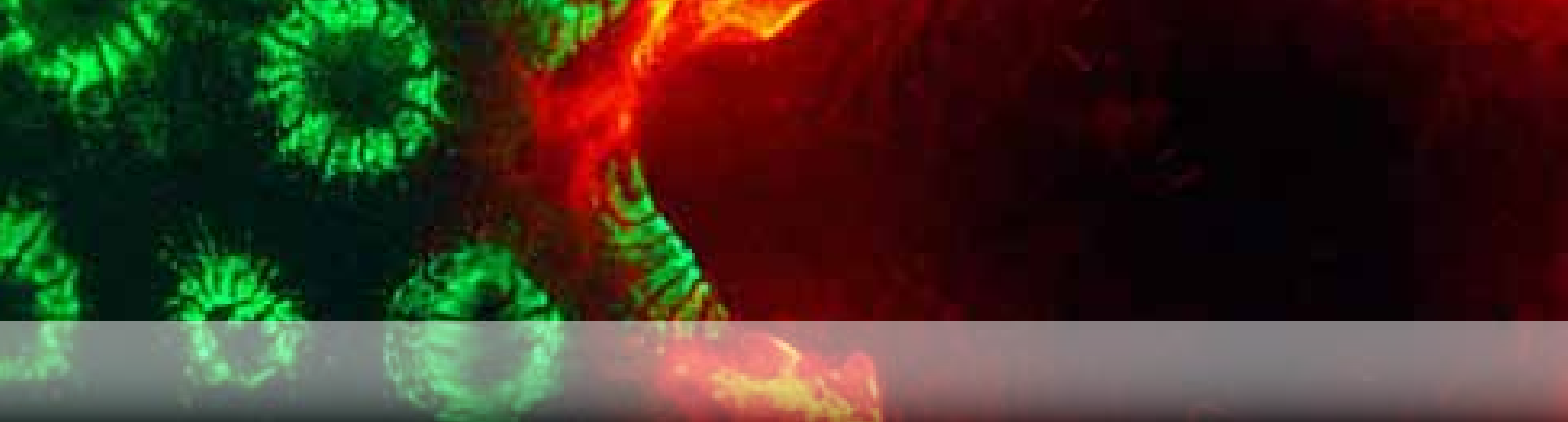
Name	Excitation wavelength (nm)	Dichroic mirror cut-off (nm)	Barrier filter cut-off (nm)
B (Blue)	450 – 480	500	515
G (Green)	510 – 550	570	590

FLUO Series - HBO Fluorescence attachment for szp stereomicroscope

SZP-FL

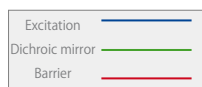
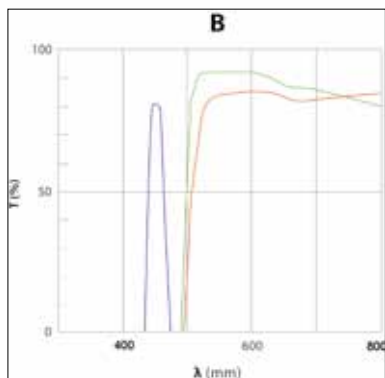


Part	Description
Description	Fluorescence attachment for SZP stereomicroscopes. Fluorescence observation for biology, industrial inspection, criminal justice, etc. Essential tool for security printing and mineral research.
Optical system	Parallel optical system (SZP system)
Filterset	Standard: GFP-B (EX460-500, DM505, BA510-560) GFP-L (EX460-500, DM505, BA510) Optional: CFP-B (EX430-450, DM455, BA465-495) YFP-B (EX490-510, DM525, BA530-560) G (EX515-550, DM570, BA590) RFP-B (EX525-555, DM570, BA585)
Illumination	100W HBO high-pressure mercury vapor bulb. Average lamp lifetime: 400 hours. Input voltage: 110/240Vac, 50/60Hz, 1A ; Fuse: F8AL 250V. Maximum input power: 125W. Current and time counter LED displays.
Photo&Video Attachment	Trinocular output port



FLUO Series - LED Fluorescence

B-353LD2



Automatic LED switching:

when a filter is inserted, fluorescence LED automatically switches on, while brightfield LED switches off

